

LOCATION: BLM-23-431

HYDRAULIC CONDITIONS: Apparent confined fractured andesite

PERTINENT OBSERVATIONS: Drilled from 373' to 455' on 06/14/90 with no noticeable water. Returned the following day (06/15/90), static water level was measured ~315' below ground surface. Drilled 455' to 500' with significant formation water accumulation ejected at each drill joint addition.

*NOTE: Volcanic rich alluvium became obvious at 361' with the actual bedrock contact not conclusively determined. After geophysical logs were run (06/18/90) a significant density lithologic change was noted at ~352', but no obvious change into bedrock. For this reason the rig was set-up again and a core taken from 500' to 503'. The core sample confirmed the presence of Orejon Andesite bedrock at this interval (500' to 503'). Re-examination of cuttings show alluvium/bedrock contact to be 363' (initially called andesite rich alluvium). However, due to the distinct lithologic change at 352' on the geophysical logs, top of bedrock is interpreted to be 352'. Orejon andesite encountered in this borehole includes weathered zones (380' to 400' and 415' to 420') that unconformably separate different flow episodes and represent a period of erosion. The best, and also uppermost, water bearing zone indicated by the geophysical logs is 437'. The screen interval chosen is 432'-442'.